

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

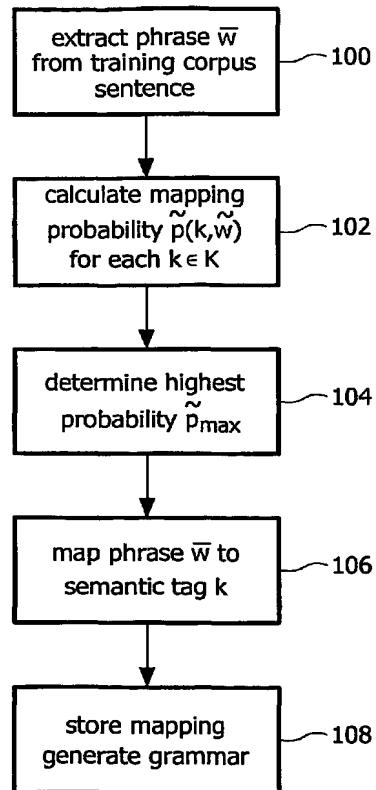
PCT

(10) International Publication Number
WO 2005/048240 A1

- (51) International Patent Classification⁷: G10L 15/18, G06F 17/27
- (21) International Application Number: PCT/IB2004/052352
- (22) International Filing Date: 9 November 2004 (09.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03104170.0 12 November 2003 (12.11.2003) EP
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

[Continued on next page]

(54) Title: ASSIGNMENT OF SEMANTIC TAGS TO PHRASES FOR GRAMMAR GENERATION



(57) Abstract: The present invention relates to a method, a system and a computer program product for mapping of semantic tags to phrases within a training corpus of weakly annotated sentences, thereby generating a grammar which can be applied to unknown sentences for the purpose of language understanding. The method is based on a probabilistic estimation that a given phrase is mapped to a semantic tag of a set of candidate semantic tags. The mapping and the generation of the grammar is performed according to a maximum mapping probability of a set of mapping probabilities of the given phrase and the set of candidate semantic tags. In particular, the determination of the mapping probability makes use of an expectation maximization algorithm.

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

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